

methacrylate, glycidyl methacrylate, tert-butyl methacrylate, isostearyl methacrylate, n-butoxyethyl methacrylate, isoamyl acrylate, lauryl acrylate, stearyl acrylate, butoxyethyl acrylate, ethoxyethylene glycol acrylate, methoxytriethylene glycol acrylate, phenoxyethyl acrylate, tetrahydrofurfuryl acrylate, isobornyl acrylate, 2-hydroxyethyl acrylate, 2-hydroxypropyl acrylate, 2-hydroxy-3-phenoxypropyl acrylate, 2-acryloyloxyethylsuccinic acid, 2-acryloyloxyethylphthalic acid, isooctyl acrylate, isomyristyl acrylate, isostearyl acrylate.

Examples of di(meth)acrylate include the following. Ethylene glycol dimethacrylate, diethylene glycol dimethacrylate, triethylene glycol dimethacrylate, tetraethylene glycol dimethacrylate, nonaethylene glycol diacrylate, 1,4-butanediol dimethacrylate, 1,6-hexanediol dimethacrylate, 1,9-nonanediol dimethacrylate, glycerin dimethacrylate, 2-hydroxy-3-acryloyloxypropyl methacrylate, neopentyl glycol dimethacrylate, 1,3-butanediol dimethacrylate, 1,10-decanediol dimethacrylate, ethylene glycol diacrylate, diethylene glycol diacrylate, triethylene glycol diacrylate, tetraethylene glycol diacrylate, 1,4-butanediol diacrylate, 1,6-hexanediol diacrylate, 1,9-nonanediol diacrylate, glycerin diacrylate, 2-hydroxy-3-acryloyloxypropyl acrylate, neopentyl glycol diacrylate, 1,3-butanediol diacrylate, 1,10-decanediol diacrylate.

Examples of tri(meth)acrylate include the following. Trimethylolpropane trimethacrylate, pentaerythritol trimethacrylate, trimethylolpropane triacrylate, pentaerythritol triacrylate.

Examples of tetra(meth)acrylate include the following. Pentaerythritol tetramethacrylate, pentaerythritol tetraacrylate,

ditrimethylolpropane tetramethacrylate, ditrimethylolpropane tetraacrylate, tetramethylolmethane tetraacrylate, etc.

Examples of hexa(meth)acrylate include the following. Dipentaerythritol hexamethacrylate, dipentaerythritol hexaacrylate, etc.

Preferred oligomer is a dimer or trimer of a compound obtained by esterification of (meth)acrylic acid with a monovalent or polyvalent alcohol.

Examples of aromatic compounds are styrene, 2-chlorostyrene, 2-bromostyrene, vinyltoluene, divinylbenzene, 2-vinylbiphenyl, 3-vinylbiphenyl, 4-vinylbiphenyl, divinylbiphenyl, 4, 4'-divinylbiphenyl, vinylnaphthalene, divinylnaphthalene, 2, 2-bis[3, 5-dibromo-4-(2-methacryloyloxyethoxy)phenyl]propane, 2, 2-bis[3, 5-dibromo-4-(2-acryloyloxyethoxy)phenyl]propane, phenyl (meth)acrylate, 2-phenylethyl (meth)acrylate, 2-phenoxyethyl (meth)acrylate, phenoxyethylate mono(meth)acrylate, p-chlorophenyl (meth)acrylate, 2-(p-chlorophenoxy)ethyl (meth)acrylate, p-bromophenyl (meth)acrylate, 2-(p-bromophenoxy)ethyl (meth)acrylate, 1, 4-benzenediol di(meth)acrylate, 1, 3, 5-triisopropenylbenzene, 2-(1-naphthyloxy)ethyl (meth)acrylate, ethoxylate bisphenol A di(meth)acrylate, bisphenol A di(2-(meth)acryloxyethyl) ether and the like.

These examples can be used singly or in combination of two or more of them.

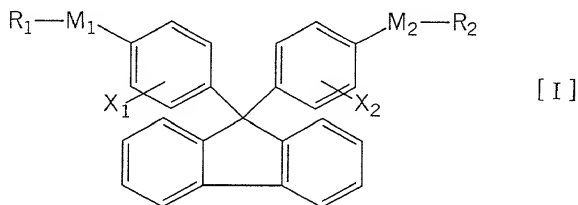
Preferred (meth)acrylate-based compounds (B) are di(meth)acrylate-based compounds. Particularly preferred compounds are ethylene glycol dimethacrylate, neopentyl glycol diacrylate, nonaethylene glycol dimethacrylate, polyethylene glycol dimethacrylate (n=14) and

9,9-bis(4-(2-acryloyloxyethoxy)phenyl)fluorene.

The radical polymerizable compound (b1) is described hereinafter.

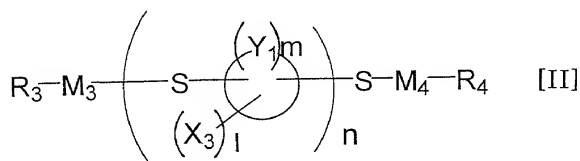
The fluorene-based compound is represented by the general formula

[I],



wherein R_1 and R_2 , being the same or different, are monovalent organic groups at least one of which has a radical polymerizable group at its terminal, M_1 and M_2 , being the same or different, are divalent organic groups represented by $\cdot(OR)_{n1}\cdot$ (wherein R is lower alkylene which can have hydroxyl and/or oxygen, and $n1$ is 0 or an integer of 1 to 5) or single bonds, and X_1 and X_2 , being the same or different, are substituents of the rings and are halogen, hydroxyl or lower alkyl.

The sulfide-based cyclic compound is represented by the general formula [II],



wherein R_3 and R_4 , being the same or different, are monovalent organic